INTERNATIONAL SEARCH REPORT

International application No.

	PCT/JP	2004/002155
A. CLASSIFICATION OF SUBJECT MATTER Int.Cl ⁷ F16C17/10, F16C33/10, F16C3	33/24, H02K7/08, G11B19/2	20
According to International Patent Classification (IPC) or to both nati	ional classification and IPC	
B. FIELDS SEARCHED	·	
Minimum documentation searched (classification system followed by Int.Cl ⁷ F16C17/10, F16C33/10, F16C3	y classification symbols) 33/24, H02K7/08, G11B19/2	20
	extent that such documents are included in the Toroku Jitsuyo Shinan Koho Jitsuyo Shinan Toroku Koho	ne fields searched 1994–2004 1996–2004
Electronic data base consulted during the international search (name	of data base and, where practicable, search t	erms used)
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category* Citation of document, with indication, where	appropriate, of the relevant passages	Relevant to claim No.
Y JP 2000-352417 A (Sankyo Se 19 December, 2000 (19.12.00 Par. No. [0042]; Figs. 1 to (Family: none)), .	1-34
Y JP 7-274427 A (Zexel Corp.) 20 October, 1995 (20.10.95), Par. No. [0021] & DE 19523789 A1	, , , , , , , , , , , , , , , , , , ,	1-34
Y JP 9-222120 A (Koyo Seiko C 26 August, 1997 (26.08.97), Par. No. [0024] (Family: none)	Co., Ltd.),	1,6,8,10
Further documents are listed in the continuation of Box C.		
* Special categories of cited documents:	See patent family annex.	
"A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent but published on or after the international "It later document published after the international filing date of date and not in conflict with the application but cited to under the principle or theory underlying the invention "X" document of particular relevance; the claimed invention can		ation but cited to understand invention
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	considered novel or cannot be considered when the document is taken alone "Y" document of particular relevance; the cloonsidered to involve an inventive s	lered to involve an inventive
"O" document referring to an oral disclosure, use, exhibition or other means document published prior to the international filing date but later than the priority date claimed	combined with one or more other such obeing obvious to a person skilled in the "&" document member of the same patent fa	documents, such combination art
Date of the actual completion of the international search 11 May, 2004 (11.05.04)	Date of mailing of the international searce 25 May, 2004 (25.05	
Name and mailing address of the ISA/ Japanese Patent Office	Authorized officer	·
Facsimile No. Form PCT/ISA/210 (second sheet) (January 2004)	Telephone No.	

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2004/002155

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
Y	JP 2002-61642 A (NSK Ltd.), 28 February, 2002 (28.02.02), Par. Nos. [0072], [0075], [0089] & US 2001/22869 A1 Par. Nos. [0112], [0119], [0139]	2-11,18-23 34
Y	JP 6-307437 A (NSK Ltd.), 01 November, 1994 (01.11.94), Par. Nos. [0012] to [0014], [0021] (Family: none)	3,5-17, 24-34
Y	JP 11-275807 A (NSK Ltd.), 08 October, 1999 (08.10.99), Par. No. [0023] (Family: none)	8,9
		(